

1 PRINTHEAD-TO-PLATEN SPACING VARIATION ALONG SCAN AXIS DUE
2 TO CARRIAGE GUIDE, MEASURED BY SIMPLE SENSOR ON CARRIAGE

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5 ABSTRACT OF THE DISCLOSURE

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7 PPS variation along a scan axis is found by shining a
8 light beam from pen carriage to print-medium position and
9 back to detector, and applying a pathlength/intensity cor-
10 relation. Sensing is done while scanning, to find rela-
11 tive PPS profile along the track. With no medium in place
12 this measures mechanical imperfections — and can be cor-
13 rected by later deducting thickness of a medium. If medi-
14 um is present, adjustment is omitted. For absolute values
15 a plural-lamp sensor is calibrated for each lamp, at the
16 PPS design point. Pagewide/webwide variants are included.